^{158}**Tb IT decay (10.70 s)**   **1965Sc11,1965Br21,1958Go78**

| | | History | |
Type	Author	Citation	Literature Cutoff Date
Full Evaluation	N. Nica	NDS 141, 1 (2017)	1-Feb-2017

Parent: ^{158}Tb: E=110.3 *12*; J$^\pi$=0$^-$; T$_{1/2}$=10.70 s *17*; %IT decay=100.0

Activity has been produced by ^{159}Tb(γ,n) and ^{159}Tb(n,2n) reactions.

^{158}Tb Levels

E(level)†	J$^{\pi‡}$	T$_{1/2}$	Comments
0	3$^-$	180 y *11*	T$_{1/2}$: From ^{158}Tb Adopted Levels.
110.3 *12*	0$^-$	10.70 s *17*	%IT=100; %ε+%β^+<0.01; %β^-<0.6
			T$_{1/2}$: From ^{158}Tb Adopted Levels.

† From γ energy.
‡ From ^{158}Tb Adopted Levels.

γ(^{158}Tb)

E$_\gamma$	I$_\gamma$$^\#$	E$_i$(level)	J$_i^\pi$	E$_f$	J$_f^\pi$	Mult.‡	$\alpha^†$	I$_{(\gamma+ce)}$$^\#$	Comments
110.3 *12*	0.92 *3*	110.3	0$^-$	0	3$^-$	M3	108 *6*	100.	ce(K)/(γ+ce)=0.52 *3*; ce(L)/(γ+ce)=0.356 *22*; ce(M)/(γ+ce)=0.090 *7*; ce(N+)/(γ+ce)=0.0240 *20* ce(N)/(γ+ce)=0.0210 *17*; ce(O)/(γ+ce)=0.00293 *24*; ce(P)/(γ+ce)=0.000114 *9* E$_\gamma$: Weighted average of 111 *2* (1958Go78) and 109.9 *15* (1965Sc11). I$_\gamma$: Calculated from I$_\gamma$(1.0+α)=100 and α(M3). Mult.: From α_K(exp)=56 *3*, α_{L+M}(exp)=50 *8*, and K/L=1.3 *3* (1965Sc11).

† Additional information 1.
‡ From ^{158}Tb Adopted Gammas.
$^\#$ Absolute intensity per 100 decays.

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Decay Scheme

Intensities: I$_{(\gamma+ce)}$ per 100 parent decays
%IT=100.0

$^{158}_{65}$Tb$_{93}$